

# How much solar power does Vietnam generate

Vietnam has seen rapid growth in solar energy development in recent years and became one of the leaders in the Southeast Asian solar power market by 2023. Vietnam's installed solar power capacity ...

Offshore wind could reach 139,097 MW and solar 189,342 MW by 2050, as overall installed capacity more than doubles and Vietnam commits to its net-zero emissions goal by mid-century. Vietnam is ...

As of 2025, Vietnam boasts an installed solar capacity of around 16 GW, a dramatic increase from approximately 4 MW in 2015. This growth trajectory has made Vietnam one of Southeast Asia's leading ...

Vietnam's electricity mix includes 48% Coal, 31% Hydropower and 8% Solar. Low-carbon generation reached a record high in 2024.

OverviewSolar energyHydropowerWind energyBiomass energySolid waste energy (waste-to-energy)Geothermal energyTidal energyBy the end of July 2021, the total solar power installed capacity was about 19,400 MWp (of which nearly 9,300 MWp is rooftop solar power), equivalent to about 16,500 MW, accounting for about 25% of the total installed capacity of all sources in the national power system. Generous FITs and supporting policies such as tax exemptions are found to be the k...

Regarding power generation - The total power generation and import output of the entire system in 2023 is 280.6 billion kWh, an increase of 4.56% compared to that of 2022.

PDP8 raised the target for solar and wind to 50% of Vietnam's power supply by 2045. 18 GW of wind is needed by 2030 and an estimated 42.7 GW of onshore wind and 54 GW of offshore wind by 2045.

Despite the impressive growth of solar power in Vietnam, several challenges loom on the horizon. One major concern is the integration of increasing amounts of solar energy into the existing power grid.

Vietnam is rapidly increasing its reliance on solar power, aiming to generate 16% of its energy from the sun by 2030--a shift driven by significant investments in solar farms across the country.

That year, solar energy generated 25.7 million kWh, supplying 9.2% of Vietnam's total electricity production and imports. When combined with hydropower and wind, clean energy sources supplied 42% of ...

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